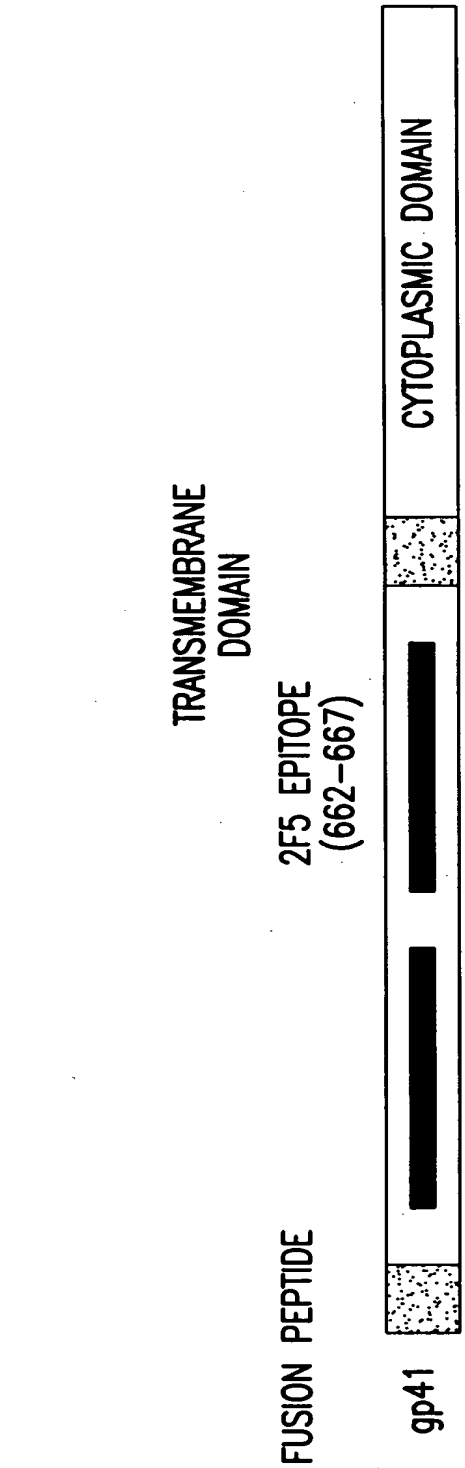
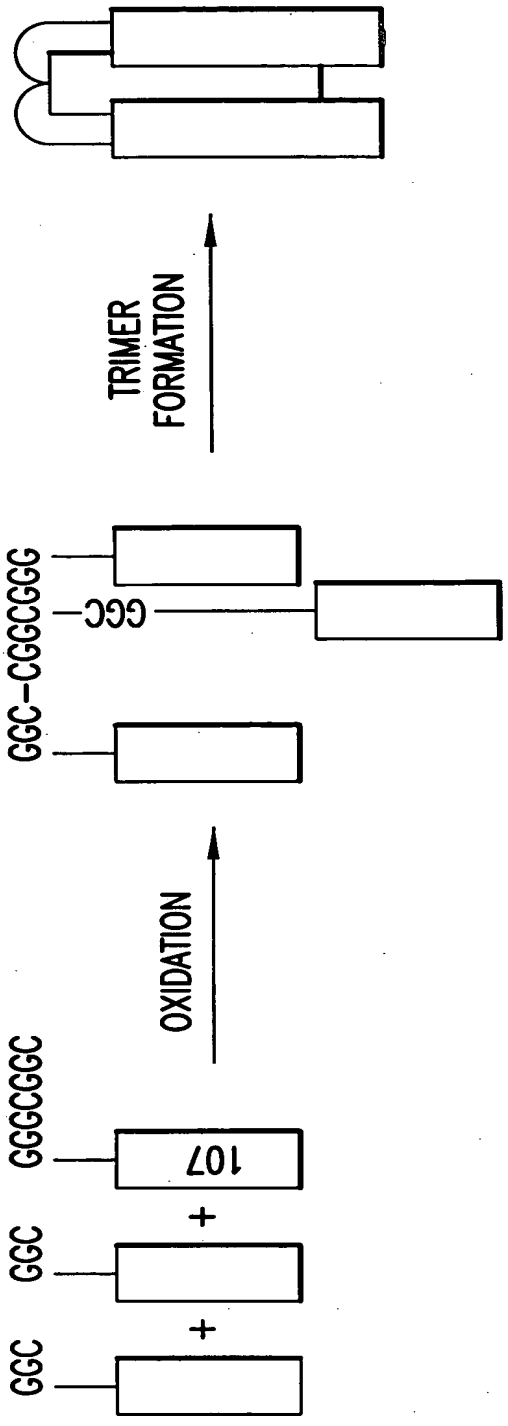
OIPE JC14
OCT 15 2004
PATENT & TRADEMARK OFFICE



STRUCTURAL & ANTIGENIC REGIONS OF HIV-1 gp41

FIG. 1



OXIDATION & OLIGOMERIZATION OF MODIFIED P-17 TO FORM STABILIZED COILED-COIL STRUCTURE

FIG.2

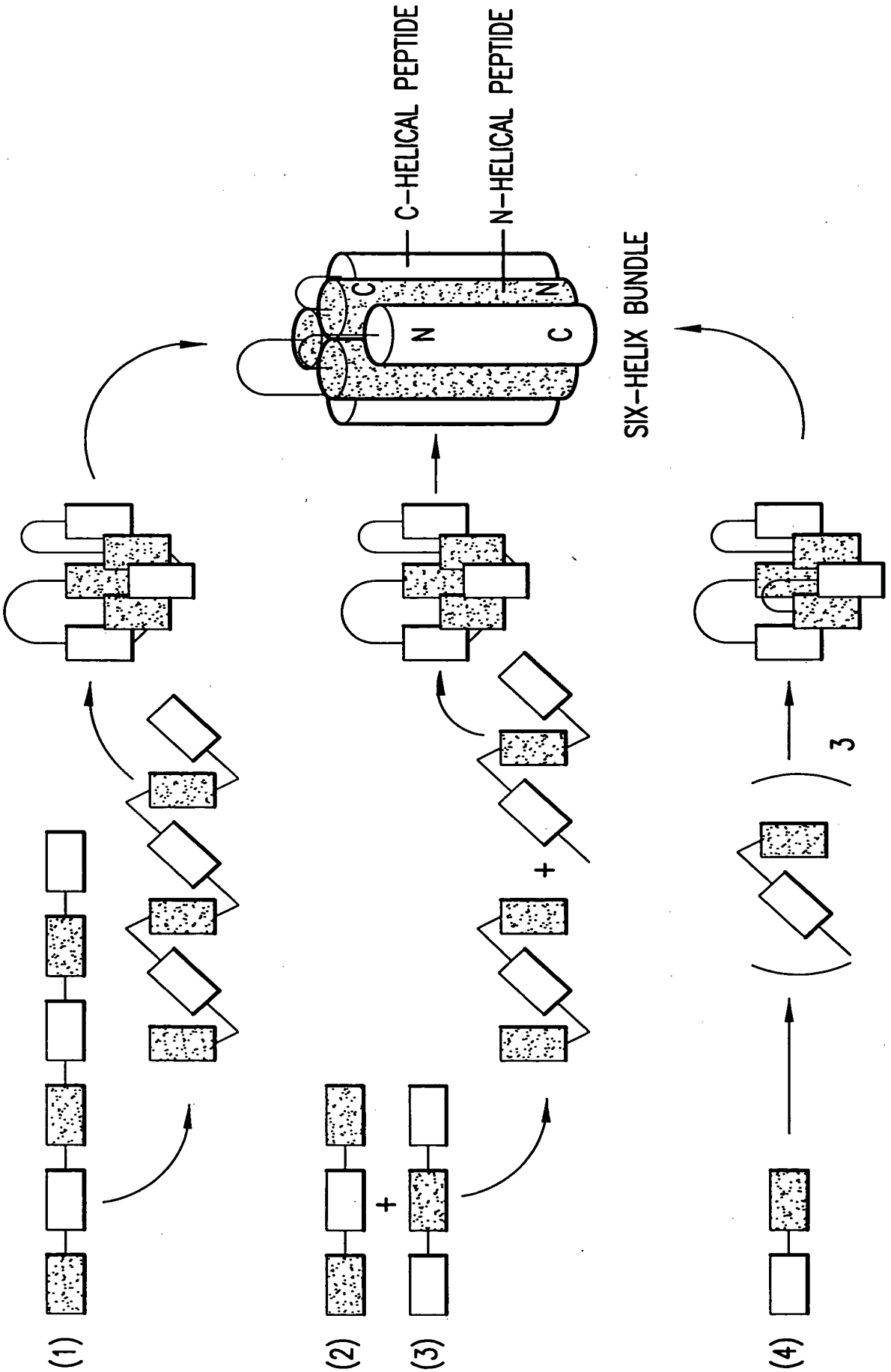

C-HELICAL PEPTIDE
N-HELICAL PEPTIDE
C
N
N
C
SIX-HELIX BUNDLE
(1)
(2)
(3)
(4)
+
+
3

FIG.3

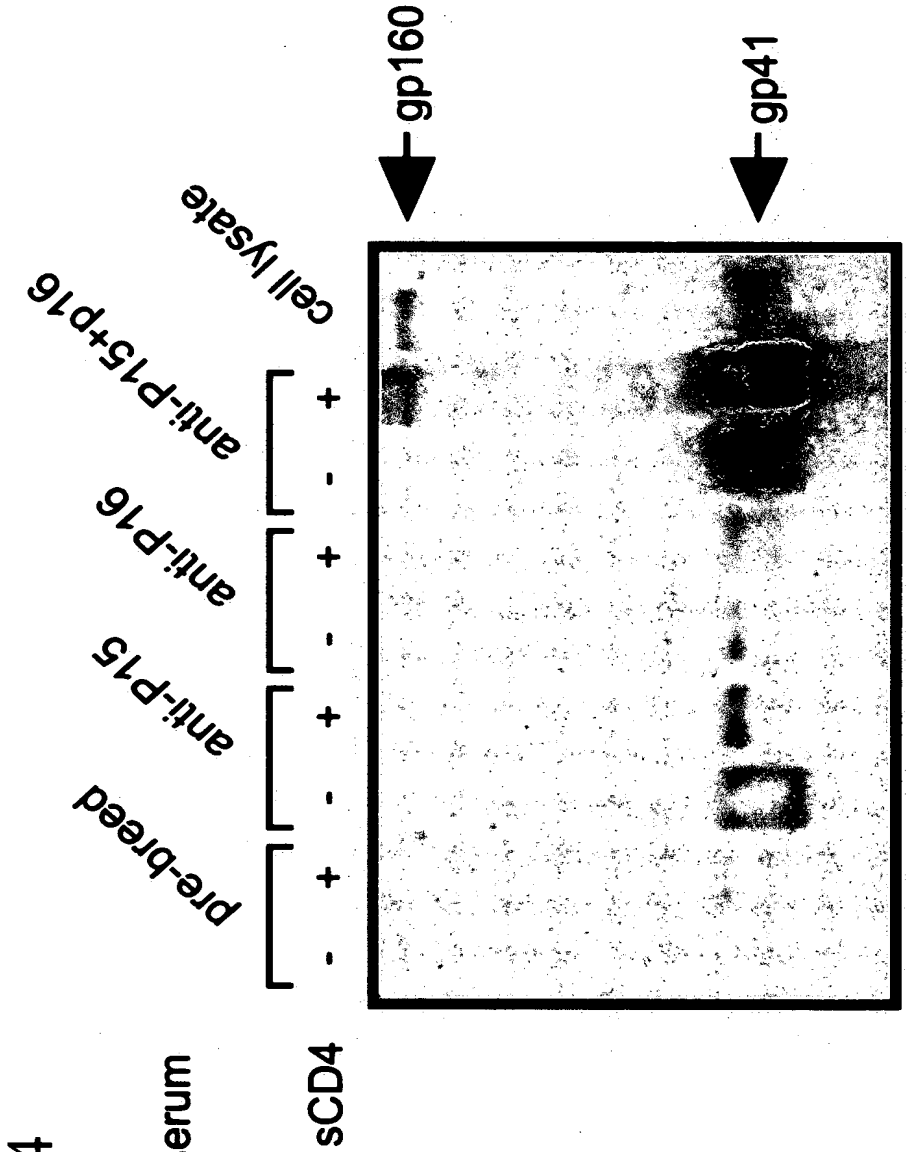


FIG. 4

BEST AVAILABLE COPY

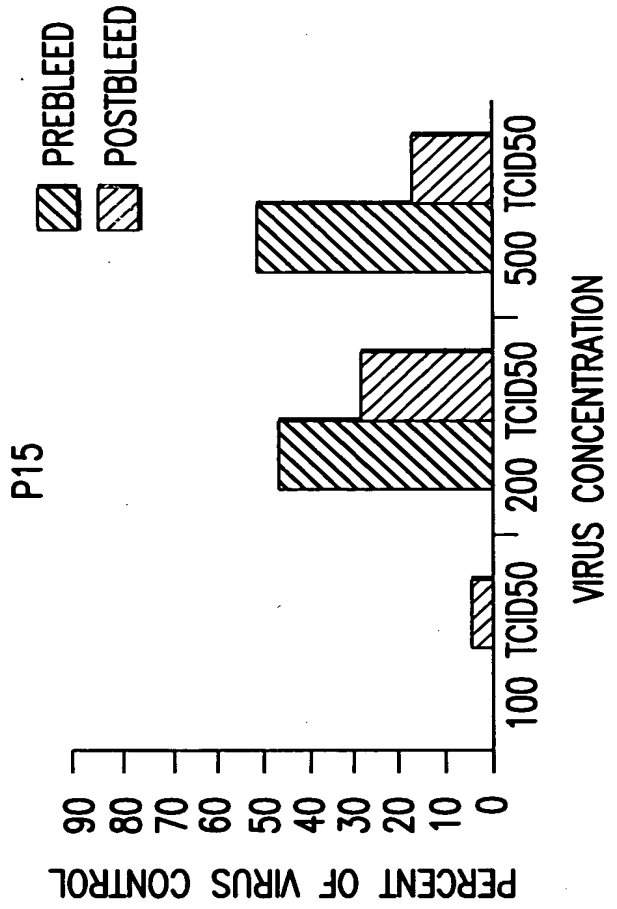

P15
PREBLEED
POSTBLEED
PERCENT OF VIRUS CONTROL
0
10
20
30
40
50
60
70
80
90
100 TCID50
200 TCID50
500 TCID50
VIRUS CONCENTRATION

FIG.5B

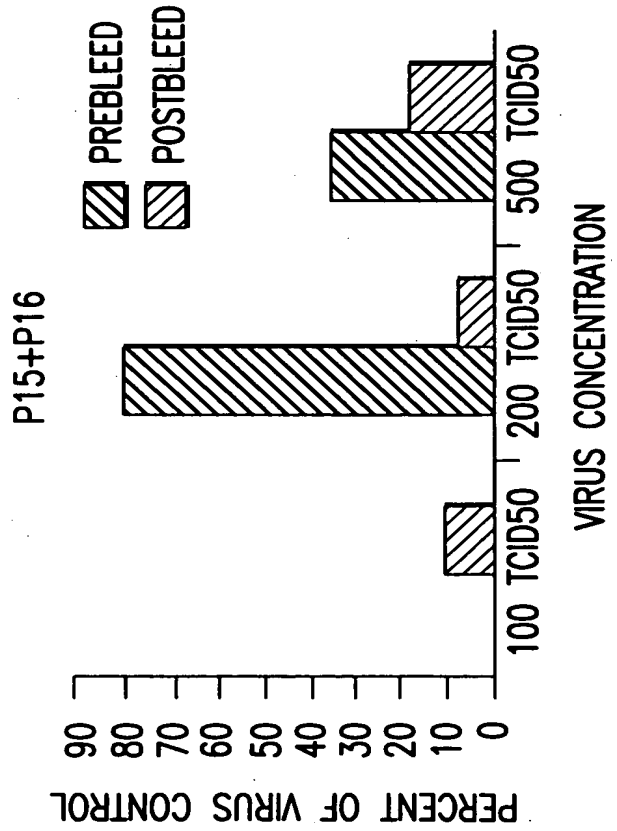

P15+P16
PREBLEED
POSTBLEED
PERCENT OF VIRUS CONTROL
0
10
20
30
40
50
60
70
80
90
100 TCID50
200 TCID50
500 TCID50
VIRUS CONCENTRATION

FIG.5A

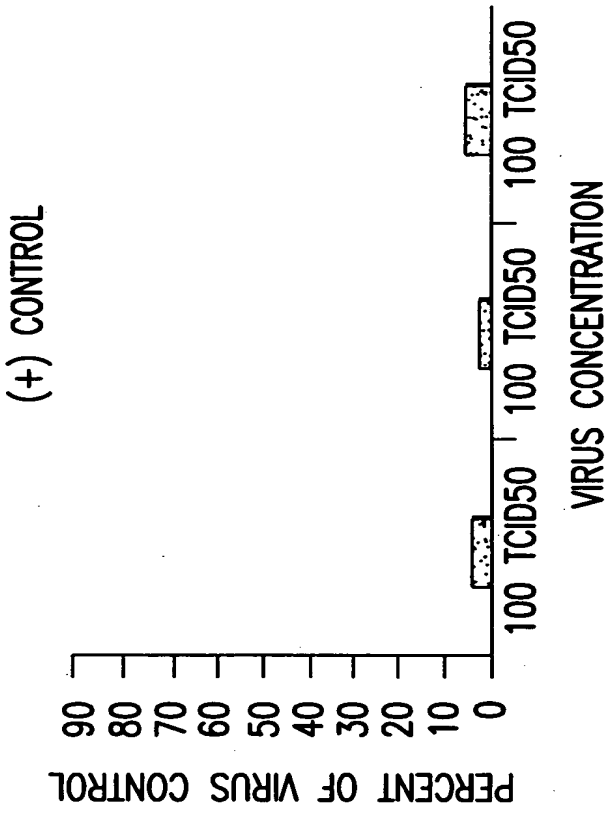

(+) CONTROL
PERCENT OF VIRUS CONTROL
0
10
20
30
40
50
60
70
80
90
100 TCID50
100 TCID50
100 TCID50
VIRUS CONCENTRATION

FIG.5D

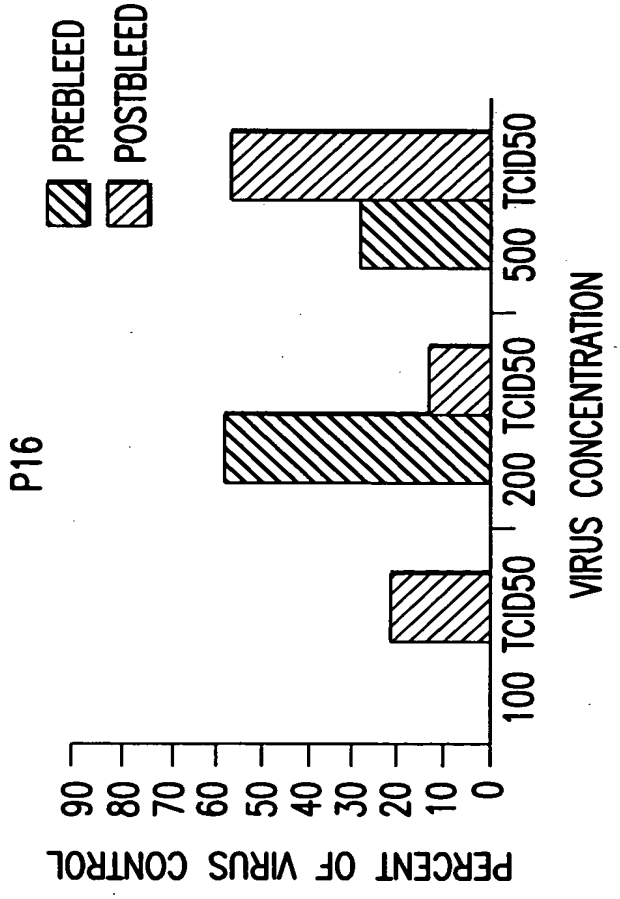

P16
PREBLEED
POSTBLEED
PERCENT OF VIRUS CONTROL
0
10
20
30
40
50
60
70
80
90
100 TCID50
200 TCID50
500 TCID50
VIRUS CONCENTRATION

FIG.5C

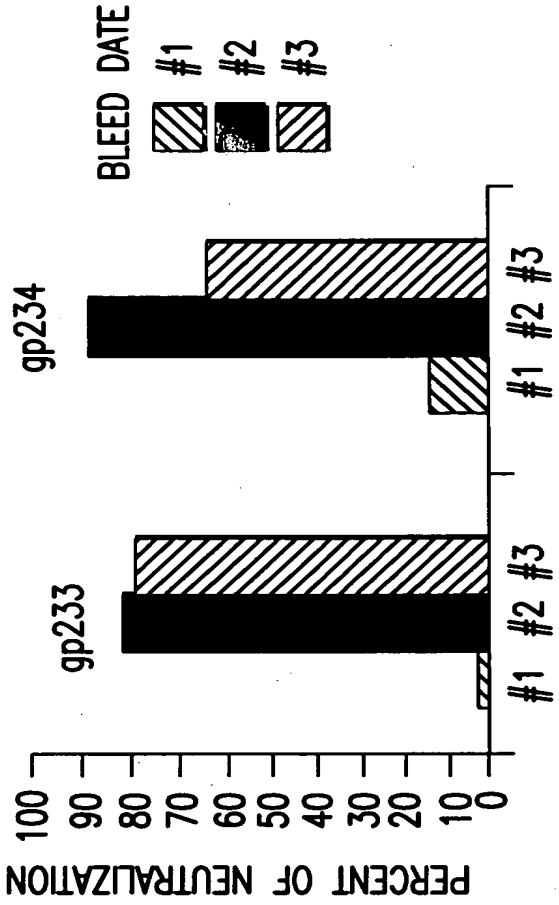

BLEED DATE
#1
#2
#3
gp234
gp233
#1 #2 #3
#1 #2 #3
100
90
80
70
60
50
40
30
20
10
0
PERCENT OF NEUTRALIZATION

FIG.6B

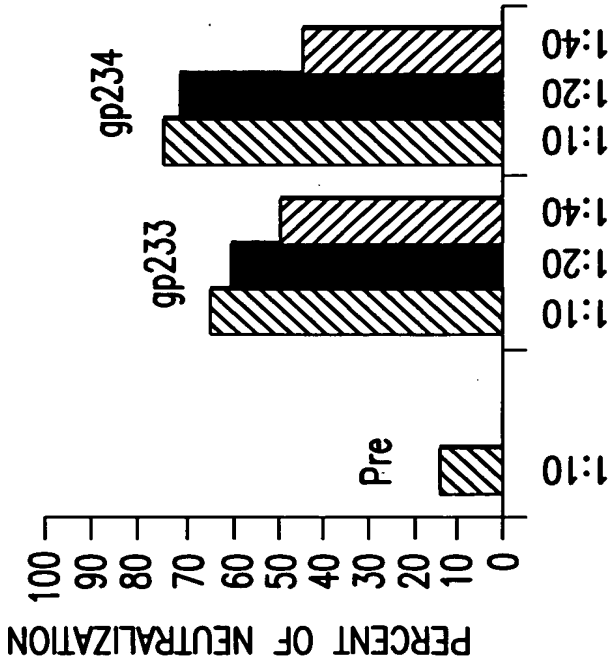

gp234
gp233
Pre
1:40
1:20
1:10
1:40
1:20
1:10
1:10
100
90
80
70
60
50
40
30
20
10
0
PERCENT OF NEUTRALIZATION

FIG.6A

GAGGGACTATATCCGGTTATTCACAAGGACGGCTGTGGGCGCCATGATCGCGTAGTCGATAGTGGCT
CCAAGTAACCGGAAGCGACAGGGACTGTGCCGGGCGCCAAAGGCGGTCGACAGTGCTTTCTAGAACC
GGGTGCGCATAAAAATGCATCACGCCTATAGCGCTAGAGCCGCTGCATTAAATGAATCGGCCA

BN11/107-178F PRIMER 107+178Stop

```
AGCGGTGCGCCGAAAGTACGCGCTAAG CTT CAT ATG GGT ATT GTT CAG CAG CAG AAC
                             M   G   I   V   Q   Q   Q   N
AAT TTG CTG AGG GCT ATT GAG GCG CAA CAG CAC CTG CTG CAG CTG ACC GTA
 N   L   L   R   A   I   E   A   Q   Q   H   L   L   Q   L   T   V
TGG GGC ATC AAG CAG CTG CAG GCA CGC ATC CTG GCT GTT GAA CGC TAC CTG
 W   G   I   K   Q   L   Q   A   R   I   L   A   V   E   R   Y   L
AAG GAT CAA GGC GGC GGC TCA GGC GCC GGC TCA GAG TGG GAC AGA GAA ATT
 K   D   Q   G   G   G   S   G   A   G   S   E   W   D   R   E   I
AAC AAT TAC ACA AGC TTA ATA CAC TCC TTA ATT GAA GAA TCG CAA AAC CAG
 N   N   Y   T   S   L   I   H   S   L   I   E   E   S   Q   N   Q
CAA GAA AAG AAT GAA CAA GAA TTA TTG GAA TTA GAT AAA TGG GCA AGT TTG
 Q   E   K   N   E   Q   E   L   L   E   L   D   K   W   A   S   L
TGG AAT TGG TTT GAA TTC ATC GAT GAT ATC AGA TCC GGC TGC TAA CAA AGC
 W   N   W   F   E   F   I   D   D   I   R   S   G   C  STOP
CCG AAA GGA AGC TGA GTT TGG CTG CTG CCA CCC GCT GAG CAA TAA CTA GCA

TAA CCC CTT GGG GGC CTC TAA ACG GGT CTT GAG GGG TTT TTT GCT TGA AAG
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FIG.7